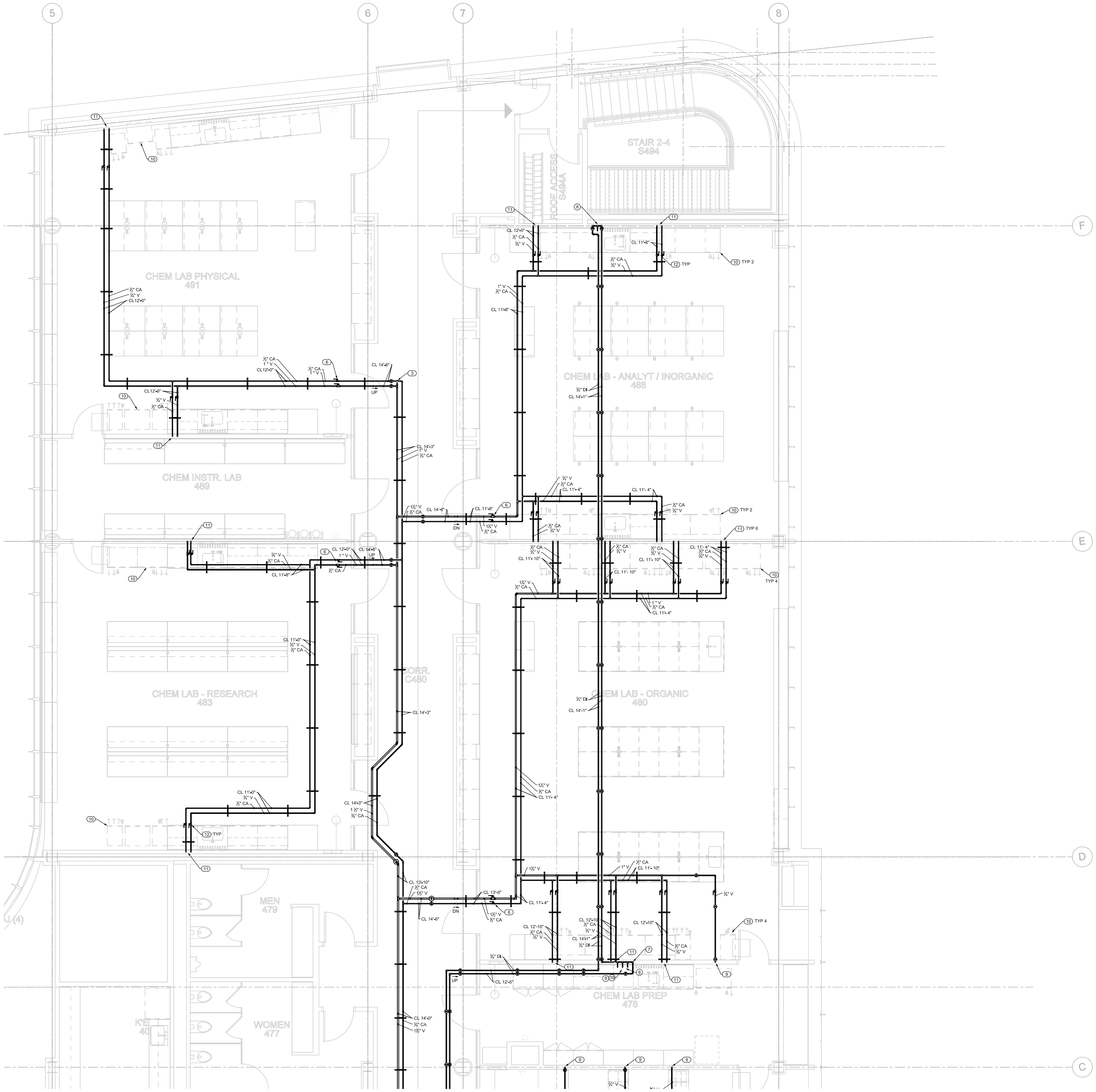


1 PARTIAL LEVEL 4 - LAB GAS PIPING PLAN

SCALE: 1/4"=1'-0"

LAB GAS KEYED NOTES: (THIS SHEET ONLY)

1. BUILDING SERVICE RISERS FOR LABORATORY COMPRESSED AIR AND VACUUM. COORDINATE INSTALLATION WITH BUILDING STRUCTURE AND OTHER SERVICES WITHIN CHASE.
2. PROVIDE FLOOR ISOLATION VALVES AT EACH FLOOR LEVEL. LOCATE VALVES IN ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL AS REQUIRED.
3. PROVIDE CLEANOUTS PLUG IN PIPING.
4. NOT USED
5. NOT USED
6. PROVIDE SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
7. NOT USED
8. INSTALL SINGLE STAGE IN-LINE AIR PRESSURE REGULATOR, BEACONMEDAES MODEL '6-122102-01', .75 INCH INLET AND OUTLET, ADJUSTABLE FROM 40 TO 110 PSIG DELIVERY RANGE, PROVIDE WITH MODEL '6-130116-00'; 0 TO 300 PRESSURE GAUGE. MOUNT ABOVE THE CEILING IN AN ACCESSIBLE LOCATION, POSITION FOR FULL ACCESS TO THE ADJUSTMENT NUT AND GAUGE. SET TO 50 PSIG.
9. EXTEND ¾" VACUUM DOWN WITHIN WALL TO SERVE LABORATORY FUME HOOD SERVICE FITTINGS. VERIFY CONNECTION LOCATIONS AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE ALL NECESSARY FITTINGS AND MAKE FINAL CONNECTIONS TO FITTINGS AS REQUIRED. PIPING TO BE CONCEALED AS MUCH AS POSSIBLE BEHIND THE EQUIPMENT OR BELOW THE COUNTERTOPS.
10. LABORATORY FUME HOOD OR BIO SAFETY CABINET. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE TYPE.
11. EXTEND ½" COMPRESSED AIR AND ¾" VACUUM DOWN WITHIN WALL TO SERVE LABORATORY FUME HOOD OR BIO SAFETY CABINET SERVICE FITTINGS. VERIFY CONNECTION LOCATIONS AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE ALL NECESSARY FITTINGS AND MAKE FINAL CONNECTIONS TO FITTINGS AS REQUIRED. PIPING TO BE CONCEALED AS MUCH AS POSSIBLE BEHIND THE EQUIPMENT OR BELOW THE COUNTERTOPS.
12. PROVIDE EQUIPMENT ISOLATION VALVES IN AN ACCESSIBLE LOCATION ABOVE THE CEILING.

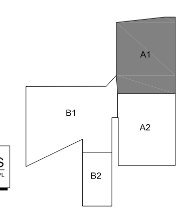
LAB DEIONIZED WATER KEYED NOTES: (THIS SHEET ONLY)

1. BUILDING SERVICE RISER FOR DEIONIZED WATER SUPPLY AND RETURN. COORDINATE INSTALLATION AND ROUTING WITH OTHER UTILITIES IN THE CHASE.
2. PROVIDE DIAPHRAGM VALVE (GF PIPING SYSTEMS TYPE 514), PRESSURE REDUCING VALVE (GF PIPING SYSTEMS TYPE 582) AND GAGE GUARD/ISOLATOR (GF PIPING SYSTEMS TYPE T53) IN SUPPLY PIPING. LOCATE ASSEMBLY IN AN ACCESSIBLE AREA ABOVE THE CEILING, OR PROVIDE AN ACCESS PANEL AS REQUIRED.
3. PROVIDE DIAPHRAGM VALVE (GF PIPING SYSTEMS TYPE 514) IN RETURN PIPING.
4. NOT USED
5. NOT USED
6. NOT USED
7. EXTEND PIPING LOOP DOWN WITHIN WALL TO SERVE DEIONIZED WATER FAUCETS, FIXTURES AND APPLIANCES. EXTEND HORIZONTAL IN WALL TO SERVE EACH OUTLET.
8. PROVIDE BALL VALVE CONNECTION BELOW THE COUNTERTOP FOR THE FAUCET. MAKE FINAL CONNECTION BETWEEN THE VALVE AND FAUCET WITH TUBING RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION. REFER TO DRAWING P0502, DETAIL P0502/2 FOR MORE INFORMATION.
9. COUNTERTOP POINT-OF-USE DI WATER POLISHER. PROVIDE VALVE CONNECTION BELOW THE COUNTERTOP. MAKE FINAL CONNECTION BETWEEN THE VALVE AND POLISHER WITH TUBING RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION. REFER TO DRAWING P0502, DETAIL P0502/2 FOR MORE INFORMATION.
10. UNDER COUNTER GLASS WASHER. PROVIDE VALVE CONNECTION BELOW THE COUNTERTOP. MAKE FINAL CONNECTION BETWEEN THE VALVE AND POLISHER WITH TUBING RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION. REFER TO DRAWING P0502, DETAIL P0502/2 FOR MORE INFORMATION.

HANGER MAP KEYED NOTES:

- H1 TRIANGLE HANGER W/ ⅜" ROD
- H2 TRAPEZE HANGER W/ ⅜" ROD
- H3 CLEVIS HANGER W/ ⅜" ROD
- H4 V-BOTTOM CLEVIS HANGER W/ ⅜" ROD

RECORD DRAWINGS
DATE: 6/30/17 DRAWN BY: ZPL



KEY PLAN

icon Mechanical
1616 Cleveland Blvd. • Granite City, IL 62040
www.iconmech.com

WEBSTER UNIVERSITY - ISB

WEBSTER GROVES, MISSOURI

ICON MECHANICAL CONTRACTORS AND ENGINEERS

NOT VALID FOR PERMITS UNLESS SEALED BY ENGINEER

Revision:

Issue Date: 12 / 1 / 16

Sheet Title

LP104A1

Project Number: 5768

Sheet Number: 1 of 1